Name:			Date: _		
Arithmetic and Geometric Sequences Practice Worksheet For each Sequence, Pattern, Table, or Story below identify whether it is <u>Arithmetic or Geometric</u> , find the <u>common difference</u> or <u>common ratio</u> , write an <u>Explicit Formula</u> , then use your formulas to find the given term.					
16, 12, -24,					a ₁₀
93					
2. 1, 3, 9, 27,					a ₅
310, -8, -6, -4,					a ₅₆
4. 72, 48, 24,					a _s
531, -23, -15,					a ₃₂
64, -12, -36,					a ₃
72, -10, -50,					a,
8. 5, 11, 17,					O ₁₅
9. 4, 24, 144,					a ₈

 a_{11}

10. 21, 16, 11, ...

Sequences

Write the first five terms of the sequence. Identify the domain and range.

1.
$$a_n = 6n$$

2.
$$a_n = 2 - n$$

3.
$$a_n = 5n + 1$$

4.
$$a_n = 3n + 4$$

5.
$$a_n = \frac{n}{2}$$

6.
$$a_n = -7n - 8$$

7. What is the seventh term of the sequence $a_n = \frac{n+3}{2n}$

a.
$$\frac{5}{7}$$

b. 5

c. 10

d. 14

For each sequence, describe the pattern, write the next term, and write a rule for the n^{th} term.